

CATALOGUE OF THE NAMES PUBLISHED BY HECTOR LÉVEILLÉ: VIII

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ABSTRACT. The species described by Léveillé belonging to the families Umbelliferae, Araliaceae, Cornaceae, Caprifoliaceae, Rubiaceae, Valerianaceae and Dipsacaceae are evaluated. Other species described in, but not belonging to, these families are also included. There are five new combinations and one new name: *Aralia melanocarpa* (Lévl.) Lauener, *Schefflera compacta* D. G. Frodin, *Abelia graebneriana* Rehder var. *deutziifolia* (Lévl.) Lauener, *Lonicera macrantha* Spreng. var. *guilloni* (Lévl. & Van.) Lauener & Ferguson, *Neanotis mairei* (Lévl.) Lauener & Ferguson and *Rubia argyi* (Lévl. & Van.) Hara.

INTRODUCTION

This paper follows the same format as those previously published and listed below.*

Lonicera and the family Rubiaceae were written in collaboration with Dr D. K. Ferguson† of the Department of Botany, University of Antwerp. Professor H. Hara and Dr Ferguson undertook the identification of *Galium* types and we are extremely grateful to Professor Hara for his help and advice in this difficult genus. It should be mentioned, however, that after further investigations, Dr Ferguson and I have made slight variations from Professor Hara's determinations in some instances. Thanks are also due to Dr D. G. Frodin and Dr T. Dudley for their help.

UMBELLIFERAE

898. *Chaerophyllum villosum* [Wall. ex] DC., Prodr. 4: 225 (1830).
Anthriscus boissieui Lévl. in Bull. Acad. Géog. Bot. 24: 281 (1914) & Cat. Pl. Yunnan 182 (1916).
CHINA. Yunnan, plaine, vallons de Tcha-ho, 2550 m, ombellifère annuelle, très tendre, fl. blanches, vii 1913, E. E. Maire s.n. (holo. *A. boissieui*, E).

899. *Hydrocotyle sibthorpioides* Lam., Encycl. 3: 153 (1789); Hiroe & Constance in Univ. Calif. Publ. Bot. 30: 11, f. 4 (1958); Hiroe, Umbelliferae of Asia 1: 10 (1958); Shan & Liou in Acta Phytotax. Sin. 9: 125 (1964).
H. rotundifolia Roxb., Fl. Ind. ed. 2, 2: 88 (1832).
Geophila yunnanensis Lévl. in Fedde, Rep. Sp. Nov. 13: 179 (1914) & Cat. Pl. Yunnan 245 (1917).
CHINA. Yunnan, plaine de Tong-tchouan, 2500 m, talus des fossés, plante gazonnante, feuilles arrondies, persistantes,—“je ne lui ai vu ni fleurs ni fruits”, iii 1911, E. E. Maire s.n. (holo. *G. yunnanensis*, E).

*Part I, *Notes R.B.G. Edinb.* 23: 573-596 (1961); II, 24: 73-78 (1962); III, 26: 333-346 (1966); IV, 27: 1-10 (1966); V, 27: 265-292 (1967); VI, 30: 239-294 (1970); VII, 397-435 (1972).

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900. *Sanicula rubriflora* [F. Schmidt ex] Maxim. in Mém. Acad. Sci. St. Pétersb. 9: 123 (1859); Shan & Constance in Univ. Calif. Publ. Bot. 25: 19 (1951); Hara, Enum. Sperm. Jap. 3: 322 (1954); Hiroe, Umbelliferae of Asia no. 1: 15 (1958); Kitagawa in Bull. Nat. Sci. Mus. Tokyo n.s. 5: 30 (1960).

Eranthis vaniotiana Lévl. in Bull. Acad. Géog. Bot. 11: 299 (1902); Nakai in Journ. Coll. Sci. Imp. Univ. Tokyo 26: 24 (1909).

KOREA. In umbrosis sylvarum Kan-ouen-to, vii 1901, *Faurie* 36 (holo. *E. vaniotiana*, E).

Shan and Constance (l.c.) cited *Faurie* 36 under *S. rubriflora* but presumably did not realise it was the type of *E. vaniotiana* as Léveillé's species was not mentioned in synonymy.

ARALIACEAE

901. *Aralia chinensis* L. var. *nuda* Nakai; Rehder in Journ. Arn. Arb. 15: 116 (1934); Li in Sargentia 2: 110 (1942); Hoo & Tseng in Acta Phytotax. Sin. 10: Addit. 1, 170 (1965).

Eleutherococcus mairei Lévl. in Fedde, Rep. Sp. Nov. 13: 342 (1914) & Cat. Pl. Yunnan 11 (1915).

Aralia labordei Lévl. = *Toddalia asiatica* (L.) Lam. (Rutaceae).

902. *Aralia melanocarpa* (Lévl.) Lauener, comb. nov.

Eleutherococcus melanocarpa Lévl. in Bull. Acad. Géog. Bot. 24: 282 (1914) & Cat. Pl. Yunnan 11 (1915).

Aralia dumetorum Hand.-Mazz., Symb. Sin. 7: 701 (1933); Li in Sargentia 2: 105 (1942); Hoo & Tseng in Acta Phytotax. Sin. 10: Addit. 1, 171 (1965).

Aralia sp.; Li in Sargentia 2: 90 (1942).

CHINA. Yunnan, colline de Ma-li-ouan, 2550 m, sous sapinières, plante vivace, dressée, fl. blanc verdâtre, fruits noirs, x 1913, E. E. Maire 294/1914 (isotype *E. melanocarpa*, E).

The holotype of *E. melanocarpa* is not in the Léveillé herbarium. The Edinburgh isotype is a duplicate originally received from Kew and numbered there as 294/1914.

903. *Brassaiopsis ciliata* Dunn; Rehder in Journ. Arn. Arb. 15: 115 (1934); Li in Sargentia 2: 53 (1942); Hoo & Tseng in Acta Phytotax. Sin. 10: Addit. 1, 149 (1965).

Acanthopanax bodinieri Lévl. in Bull. Acad. Géog. Bot. 24: 143 (1914) & Fl. Kouy-Tchéou 33 (1914).

904. *Brassaiopsis glomerulata* (Bl.) Regel in Gartenfl. 12: 275, t. 411 (1863); Li in Sargentia 2: 58 (1942); Hoo & Tseng in Acta Phytotax. Sin. 10: Addit. 1, 148 (1965).

Aralia glomerulata Bl., Bijdr. 872 (1826).

Acanthopanax esquirolii Lévl. in Bull. Acad. Géog. Bot. 24: 143 (1914) & Fl. Kouy-Tchéou 33 (1914) p.p. quoad fol.

Schefflera sp.; Rehder in Journ. Arn. Arb. 15: 114 (1934); Li in Sargentia 2: 90 (1942).

The type specimen of *Acanthopanax esquirolii* was examined by Dr D. G. Frodin and found to be a mixture. The leaves, as indicated above, are referable to *Brassaiopsis glomerulata*; the flowers and fruits are those of a *Schefflera* but may belong to either *S. bodinieri* (Lévl.) Rehder or *S. compacta* D. G. Frodin. According to Dr Frodin (in litt.) it is almost impossible to distinguish the flowers and fruits of these two species as the differences are primarily vegetative.

905. *Brassaiopsis tripteris* (Lévl.) Rehder in Journ. Arn. Arb. 15: 115 (1934); Li in Sargentia 2: 56 (1942); Hoo & Tseng in Acta Phytotax. Sin. 10: Addit. 1, 148 (1965).

Heptapleurum tripteris Lévl. in Bull. Acad. Géog. Bot. 24: 145 (1914), Fl. Kouy-Tchéou 35 (1914) & Cat. Ill. Pl. Seu-Tchouen pl. 1 (1918).

906. *Dendropanax morbiferus* Lévl. in Fedde, Rep. Sp. Nov. 8: 283 (1910); Rehder in Journ. Arn. Arb. 18: 227 (1937).

Gilibertia morbifera (Lévl.) Nakai in Journ. Arn. Arb. 5: 22 (1924).
Textoria morbifera (Lévl.) Nakai, Fl. Sylv. Kor. 16: 41, t. 12, 13 (1927).

907. *Macropanax rosthornii* (Harms) Wu ex Hoo in Acta Phytotax. Sin. 10: Addit. 1, 166 (1965).

Nothopanax rosthornii Harms in Bot. Jahrb. 29: 487 (1900); Li in Sargentia 2: 68 (1942).

Heptapleurum esquirolii Lévl. in Bull. Acad. Géog. Bot. 24: 145 (1914) & Fl. Kouy-Tchéou 35 (1914); Rehder in Journ. Arn. Arb. 15: 116 (1934) pro syn. sub *Nothopanax delavayi* (Franch.) Harms.

908. *Nothopanax delavayi* (Franch.) Harms; Rehder in Journ. Arn. Arb. 15: 115 (1934) excl. syn. *Heptapleurum esquirolii* Lévl.; Li in Sargentia 2: 67 (1942) excl. syn. *Heptapleurum esquirolii* Lévl.

Panax delavayi Franch. in Journ. de Bot. 10: 305 (1896).

Aralia bodinieri Lévl. in Bull. Acad. Géog. Bot. 24: 143 (1914) & Fl. Kouy-Tchéou 34 (1914).

Heptapleurum esquirolii is a synonym of *Macropanax rosthornii* (q.v.).

909. *Schefflera bodinieri* (Lévl.) Rehder in Journ. Arn. Arb. 11: 166 (1930) & 15: 114 (1934); Li in Sargentia 2: 21 (1942); Hoo & Tseng in Acta Phytotax. Sin. 10: Addit. 1, 133 (1965).

Heptapleurum bodinieri Lévl. in Bull. Acad. Géog. Bot. 24: 114 (1914) & Fl. Kouy-Tchéou 35 (1914).

CHINA. Kweichow. District de Tsin-gay, vallée de Kia-la-tchong, grande arbuste, 21 xii 1897, Laborde & Bodinier 2459 (syntype *H. bodinieri*, E); environs de Kouy-yang, mont. du collège, arbuste, 17 ii 1898 (en fruits), item. ix 1898 (en fleurs), Bodinier 2459 (syntype *H. bodinieri*, E)—cited by Léveillé as Bodinier without number; route de Pin-fa à Kouy-tin, 4 x 1902, Cavalerie 747 (syntype *H. bodinieri*, E)—cited by Léveillé as Cavalerie 3098; Long-ly, Cavalerie 1567 (E), 5 ix 1907, Cavalerie 3098 (E).

There is some confusion in Léveillé's citation of syntypes. The first two are both numbered 2459 but the number for the first syntype is omitted both in the protologue and in Flore du Kouy-Tchéou. The third syntype is cited as *Cavalerie* 3098 in the protologue, but correctly as *Cavalerie* 747 in the Flore du Kouy-Tchéou. There is a specimen *Cavalerie* 3098 but this was collected at Long-ly and it is obvious that Léveillé confused the field note of one with the number of the other.

910. *Schefflera compacta* D. G. Frodin, nom. nov.

Eleutherococcus bodinieri Lévl. in Bull. Acad. Géog. Bot. 24: 144 (1914) & Fl. Kouy-Tchéou 34 (1914)—non *Schefflera bodinieri* (Lévl.) Rehder (1930) see previous species.

Schefflera sp.; Rehder in Journ. Arn. Arb. 15: 115 (1934); Li in Sargentia 2: 90 (1942).

I am grateful to Dr Frodin for his permission to publish *S. compacta* in this paper.

911. *Schefflera delavayi* (Franch.) Harms; Rehder in Journ. Arn. Arb. 15: 113 (1934); Li in Sargentia 2: 27 (1942); Hoo & Tseng in Acta Phytotax. Sin. 10: Addit. 1, 132 (1965).

Heptapleurum delavayi Franch. in Journ. de Bot. 10: 307 (1896).

H. dunnianum Lévl. in Fedde, Rep. Sp. Nov. 11: 295 (1912) & Fl. Kouy-Tchéou 35 (1914).

912. *Schefflera venulosa* (Wight & Arn.) Harms in Engl. & Prantl, Nat. Pflanzenfam. 3 (8): 39 (1894); Li in Sargentia 2: 34 (1942); Hoo & Tseng in Acta Phytotax. Sin. 10: Addit. 1, 132 (1965).

Paratropia venulosa Wight. & Arn., Prodr. 1: 377 (1834).

Heptapleurum cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 9: 326 (1911) & Fl. Kouy-Tchéou 35 (1914); Rehder in Journ. Arn. Arb. 15: 114 (1934) pro syn. sub *S. elliptica* (Bl.) Harms.

913. *Tetrapanax papyriferus* (Hook.) C. Koch; Rehder in Journ. Arn. Arb. 15: 113 (1934); Li in Sargentia 2: 14 (1942).

Aralia? *papyrifera* Hook., Journ. Bot. Kew Gard. Misc. 4: 53, t. 1, 2 (1852).

A. mairei Lévl. in Fedde, Rep. Sp. Nov. 13: 342 (1914), Fl. Kouy-Tchéou 34 (1914) & Cat. Pl. Yunnan 11 (1915).

914. *Trevesia palmata* (Roxb.) Vis.; Rehder in Journ. Arn. Arb. 15: 113 (1934); Li in Sargentia 2: 13 (1942).

Gastonia palmata Roxb., Fl. Ind. ed. 2, 2: 407 (1832).

Fatsia cavaleriei Lévl. in Bull. Acad. Géog. Bot. 24: 144 (1914) & Fl. Kouy-Tchéou 34 (1914).

The year of publication of *Gastonia palmata* has been erroneously cited in some literature as 1824, but this is the date of volume 2 of the first edition.

CORNACEAE sens. lat.

915. **Alangium faberi** Oliver; Lévl., Cat. Pl. Yunnan 59 (1916); Rehder in Journ. Arn. Arb. 15: 108 (1934).

Marlea bodinieri Lévl. in Bull. Acad. Géog. Bot. 22: 232 (1912) & Fl. Kouy-Tchéou 116 (1914).

916. **Alangium faberi** Oliver var. **perforatum** (Lévl.) Rehder in Journ. Arn. Arb. 15: 108 (1934).

Ardisia perforata Lévl. in Fedde, Rep. Sp. Nov. 9: 462 (1911) & Fl. Kouy-Tchéou 283 (1915).

917. **Camptotheca acuminata** Decne.; Rehder in Journ. Arn. Arb. 18: 226 (1937).

Cephalanthus esquirolii Lévl. in Fedde, Rep. Sp. Nov. 13: 176 (1914) & Fl. Kouy-Tchéou 365 (1915).

918. **Cornus canadensis** L.; Rehder in Journ. Arn. Arb. 15: 117 (1934).
C. fauriei Lévl. in Fedde, Rep. Sp. Nov. 8: 281 (1910).

919. **Cornus capitata** [Wall. ex] Roxb., Fl. Ind. 1: 434 (1820).

C. capitata [Wall. ex] Roxb. var. *hypoleuca* Lévl., Cat. Pl. Yunnan 59 (1916); Rehder in Journ. Arn. Arb. 15: 117 (1934) pro syn. sub *C. capitata* var. *mollis* Rehder.

Rehder said that he had not seen the type of var. *hypoleuca* and from the description it did not appear to differ from his var. *mollis*. The type is present in the Léveillé herbarium and it does not differ from typical *C. capitata*.

Cornus esquirolii Lévl. = **Adina racemosa** (Sieb. & Zucc.) Miq. (Rubiaceae)

920. **Cornus macrophylla** Wall.; Rehder in Journ. Arn. Arb. 15: 116 (1934).
C. bodinieri Lévl., Fl. Kouy-Tchéou 116 (1914) nom. nud. pro syn. sub *C. macrophylla*.

921. **Cornus monbeigii** Hemsl.; Rehder in Journ. Arn. Arb. 15: 116 (1934).
C. rosea Lévl. in Bull. Acad. Géog. Bot. 24: 288 (1914).

922. **Cornus oblonga** Wall.; Rehder in Journ. Arn. Arb. 15: 116 (1934).
Ardisia discolor Lévl. in Fedde, Rep. Sp. Nov. 10: 373 (1912) & Fl. Kouy-Tchéou 283 (1915).

923. **Cornus paucinervis** Hance; Rehder in Journ. Arn. Arb. 15: 117 (1934).
C. amblardi Lévl. in Bull. Soc. Bot. Fr. 51: cxlv (1904), Fl. Kouy-Tchéou 115 (1914) & Cat. Pl. Yunnan 59 (1916).

Helwingia argyi Lévl. & Van. = **Stemona japonica** (Bl.) Miq. (Roxburghiaceae).

Marlea cavaleriei Lévl. = **Gardneria multiflora** Mak. (Loganiaceae).

924. *Nyssa sinensis* Oliver; Rehder in Journ. Arn. Arb. 15: 107 (1934); Tard. in Fl. Cambodge, Laos & Vietnam, no. 8: 6 (1968).

Daphniphyllum cavaleriei Lévl., in Fedde, Rep. Sp. Nov. 9: 460 (1911) & Fl. Kouy-Tchéou, 161 (1914) excl. *Cavalerie* 2349.

Microrhamnus bodinieri Lévl., Fl. Kouy-Tchéou 341 (1915).

CAPRIFOLIACEAE

925. *Abelia cavaleriei* Lévl., Fl. Kouy-Tchéou 60 (1914); Rehder in Journ. Arn. Arb. 16: 335 (1935).

926. *Abelia graebneriana* Rehder var. *deutziaefolia* (Lévl.) Lauener, comb. & stat. nov.

Strobilanthes deutziaefolius Lévl. in Fedde, Rep. Sp. Nov. 12: 20 (1913) sphalm. *Strobilanthes*.

Strobilanthes deutziaefolia Lévl., Fl. Kouy-Tchéou 60 (1914) pro syn. sub *A. deutziaefolia*.

Abelia deutziaefolia (Lévl.) Lévl., Fl. Kouy-Tchéou 60 (1914).

A. verticillata Lévl., Fl. Kouy-Tchéou 60 (1914); Rehder in Journ. Arn. Arb. 16: 334 (1935).

A. schumannii auct.; Rehder in Journ. Arn. Arb. 16: 334 (1935) except *A. mairei* Lévl.—non (Graebn.) Rehder.

Rehder equated *A. mairei* with *A. schumannii* with which I agree. I disagree, however, in his placing of *Strobilanthes deutziaefolia* as a synonym of *A. schumannii* and his retention of *A. verticillata* as a separate species. Contrary to Rehder's observation, the leaves of *A. verticillata* are bearded in the axils and do have hairs alongside the midrib. The main characters separating *A. verticillata* and *S. deutziaefolius* from *A. graebneriana* are the pilose branchlets and the less acuminate leaves.

It may be that Léveillé's two species are part of a broader concept of *A. graebneriana* but apart from differing from Rehder's treatment of these two species, I prefer to retain them as a variety distinct from *A. graebneriana*.

927. *Abelia myrtilloides* Rehder; Rehder in Journ. Arn. Arb. 16: 334 (1935).

Strobilanthes hypericifolius Lévl. in Fedde, Rep. Sp. Nov. 12: 20 (1913) sphalm. *Strobilanthes*.

Strobilanthes hypericifolia Lévl., Fl. Kouy-Tchéou 61 (1914) pro syn. sub *Abelia parvifolia* Hemsl.

Abelia bodinieri Lévl., Fl. Kouy-Tchéou 61 (1914) nom. nud. pro syn. sub *Abelia parvifolia* Hemsl.

928. *Abelia schumannii* (Graebn.) Rehder; Rehder in Journ. Arn. Arb. 16: 334 (1935) excl. syn. *Strobilanthes deutziaefolius* Lévl. et seq. sed non *Abelia mairei* Lévl.

A. mairei Lévl., Cat. Pl. Yunnan 26 (1915).

Cavaleriella cordata Lévl. = *Aspidopterys esquirolii* Lévl. (Malpighiaceae).

929. *Dipelta yunnanensis* Franch.; Rehder in Journ. Arn. Arb. 16: 333 (1935).

Cavaleriella dunniana Lévl., Fl. Kouy-Tchéou 61 (1914).

LONICERA
(with D. K. Ferguson)

Lonicera androsaemifolia Lévl. = *Woodfordia fruticosa* (L.) S. Kurz (Lythraceae).

Lonicera cavaleriei Lévl. = *Jasminum sinense* Hemsl. (Oleaceae).

930. *Lonicera esquirolii* Lévl., Fl. Kouy-Tchéou 63 (1914); Rehder in Journ. Arn. Arb. 16: 339 (1935).

931. *Lonicera fragilis* Lévl. in Fedde, Rep. Sp. Nov. 13: 337 (1914) & Cat. Pl. Yunnan 27 (1915); Rehder in Journ. Arn. Arb. 16: 337 (1935) descr. ampl.

Rehder affiliated *L. fragilis* with *L. nubigena* Rehder which we have not seen. We have not been able to relate *L. fragilis* to any other species, mainly due to lack of material.

932. *Lonicera gynopogon* Lévl. in Bull. Acad. Géog. Bot. 24: 289 (1914) & Cat. Pl. Yunnan 27 (1915); Rehder in Journ. Arn. Arb. 16: 338 (1935) pro syn. sub *L. koehneana* Rehder.

L. vestita W. W. Sm. in Notes R.B.G. Edinb. 10: 49 (1917) syn. nov.

We have examined the holotypes of *L. gynopogon* and *L. vestita* and a syntype of *L. koehneana*. We do not agree with Rehder's equating of *L. gynopogon* with *L. koehneana*. In *L. koehneana* the pedicels are from 15-27 mm long whilst those of *L. gynopogon* are from 6-12.5 mm. Corolla lengths of the two species are 13-18 mm and 5.5-11.5 mm respectively, whilst the leaves are 50-76 mm and 23-29 mm. *L. vestita* agrees in all respects with *L. gynopogon*.

Kern & van Steenis (Fl. Males. 1, 4; 178, 1954) reduce several species to synonymy under *L. acuminata* Wall. including *L. vestita*. We find that *L. acuminata* differs in the much larger leaves and flowers.

933. *Lonicera japonica* Thunb.; Rehder in Journ. Arn. Arb. 16: 339 (1935); Hara, Enum. Sperm. Jap. 2: 43 (1952); Ohwi, Fl. Jap. (Engl. ed.) 840 (1965).

L. fauriei Lévl. & Van. in Fedde, Rep. Sp. Nov. 5: 100 (1908).

934. *Lonicera lanceolata* [Wall. ex] Roxb., Fl. Ind. 2: 177 (1824); Lévl., Cat. Pl. Yunnan 27 (1915); Rehder in Journ. Arn. Arb. 16: 337 (1935).

L. acrophila Lévl. in Bull. Acad. Géog. Bot. 24: 289 (1914) & Cat. Pl. Yunnan 27 (1915).

L. acrophila agrees with *L. lanceolata*, among other characters, in being glandular-puberulous on the young branchlets, peduncles, petioles and over the mid-vein on the upper surface of the leaves. *L. nervosa* Maxim. which is similar to *L. acrophila* is less hairy and characterized by corolla tubes which are externally glabrous, rather than puberulous as in *L. lanceolata*.

The character of peduncle length used by Rehder (Ann. Rep. Miss. Bot. Gard. 14: 115, 1903) to differentiate *L. nervosa* and *L. lanceolata* is not very satisfactory.

935. *Lonicera ligustrina* [Wall. ex] Roxb., Fl. Ind. 2: 179 (1824); Lévl., Cat. Pl. Yunnan 27 (1915); Rehder in Journ. Arn. Arb. 16: 335 (1935).

L. missionis Lévl., Fl. Kouy-Tchéou 63 (1914) pro parte, quoad specim. Esquirol s.n. 10 v 1906 & Chaffanjon & Bodinier 2215 & Cat. Pl. Yunnan 27 (1915).

A type of *L. ligustrina* Wall., present in the Edinburgh herbarium, has been examined and found to agree with the specimen of *L. missionis* Lévl. cited above.

936. *Lonicera macrantha* Spreng. var. *guillonii* (Lévl. & Van.) Lauener & Ferguson, comb. & stat. nov.

L. guilloni Lévl. & Van. in Bull. Soc. Bot. Fr. 51: cxlv (1904); Lévl., Fl. Kouy-Tchéou 63 (1914) & Rehder in Journ. Arn. Arb. 16: 338 (1935) pro syn. sub *L. macrantha*.

In addition to the differences noted by Rehder between *L. macrantha* and *L. guilloni* we have also observed that the underside of the leaf in *L. guilloni* has a much more prominent reticulation. In view of these differences we prefer to retain *L. guilloni* as a separate taxon.

Lonicera menelii Lévl. = *Phlogacanthus pubinervis* T. Anders. (Acanthaceae).

937. *Lonicera pampaninii* Lévl. in Fedde, Rep. Sp. Nov. 10: 145 (1911), Fl. Kouy-Tchéou 64 (1914) & Cat. Pl. Yunnan 27 (1915); Rehder in Journ. Arn. Arb. 16: 338 (1935) excl. syn. & 18: 250 (1937); Hand.-Mazz., Symb. Sin. 7: 1048 (1936).

938. *Lonicera pileata* Oliver; Lévl., Cat. Pl. Yunnan 27 (1915); Rehder in Journ. Arn. Arb. 16: 336 (1935).

L. missionis Lévl., Fl. Kouy-Tchéou 63 (1914) pro parte quoad specim. Laborde & Bodinier 2502.

L. buxifolia Lévl., Fl. Kouy-Tchéou 63 (1914) & Cat. Ill. Pl. Seu-Tchouen, t. 11 (1918).

Lonicera rehderi Lévl. = *Jasminum sinense* Hemsl. (Oleaceae).

939. *Lonicera trichopoda* Franch. in Journ. de Bot. 10: 317 (1896); Rehder in Ann. Rep. Miss. Bot. Gard. 14: 56 (1903); Lévl., Cat. Pl. Yunnan 28 (1915).

L. rocheri Lévl. in Bull. Acad. Géog. Bot. 24: 289 (1914) & Cat. Pl. Yunnan 27 (1915); Rehder in Journ. Arn. Arb. 16: 335 (1935) pro syn. sub *L. tangutica* Maxim.

As Rehder himself pointed out, *L. rocheri* "differs somewhat from typical *L. tangutica* in the linear-lanceolate somewhat leafy bracts about twice as long as the ovary . . . ". In this respect and in general habit, *L. rocheri* has a much closer affinity with *L. trichopoda*. In three Forrest specimens of

L. trichopoda the calyx is irregularly lobed while one Handel-Mazzetti specimen has an unlobed calyx. *L. rocheri* agrees most closely with the Handel-Mazzetti specimen.

Lonicera vaccinum Lévl. = *Wikstroemia vaccinum* (Lévl.) Rehder (Thymelaeaceae).

940. *Lonicera yunnanensis* Franch.; Rehder in Journ. Arn. Arb. 16: 339 (1935).

L. mairei Lévl. in Bull. Acad. Géog. Bot. 24: 289 (1914).

941. *Sambucus javanica* Bl. var. *argyi* (Lévl.) Rehder in Journ. Arn. Arb. 16: 328 (1935).

S. argyi Lévl. in Bull. Acad. Géog. Bot. 24: 292 (1914) & in Mem. Real Acad. Ci. Artes Barcelona ser. 3, 12: 545 (1916).

942. *Triosteum himalayanum* [Wall. ex] Roxb.; Rehder in Journ. Arn. Arb. 18: 250, 276 (1937).

Echium connatum Lévl., Cat. Pl. Yunnan 22 (1915).

943. *Viburnum cavaleriei* Lévl. in Fedde, Rep. Sp. Nov. 9: 442 (1911) & Fl. Kouy-Tchéou 66 (1914); Rehder in Journ. Arn. Arb. 16: 329 (1935) & 18: 250 (1937).

944. *Viburnum congestum* Rehder; Rehder in Journ. Arn. Arb. 16: 329 (1935).

Hedyotis mairei Lévl. in Fedde, Rep. Sp. Nov. 13: 176 (1914) & Cat. Pl. Yunnan 245 (1917).

Viburnum mairei Lévl., Cat. Pl. Yunnan 28 (1915).

Prema esquirolii Lévl., Sert. Yunnan 3 (1916) & Cat. Pl. Yunnan 298 (1917).

Oldenlandia mairei (Lévl.) Chun in Sunyatsenia 1: 312 (1934).

945. *Viburnum corylifolium* Hook. f. & Thoms.; Rehder in Journ. Arn. Arb. 16: 332 (1935).

V. dunnianum Lévl. in Fedde, Rep. Sp. Nov. 9: 442 (1911) & Fl. Kouy-Tchéou 66 (1914).

V. barbigerum Lévl., Fl. Kouy-Tchéou 65 (1914).

Viburnum dielsii Lévl. = *Callicarpa rubella* Lindl. var. *dielsii* (Lévl.) Li (Verbenaceae).

946. *Viburnum erosum* Thunb. var. *taquetii* (Lévl.) Rehder; Rehder in Journ. Arn. Arb. 16: 333 (1935).

V. taquetii Lévl. in Fedde, Rep. Sp. Nov. 9: 443 (1911).

947. *Viburnum erubescens* Wall.; Rehder in Journ. Arn. Arb. 16: 328 (1935).

V. botryoideum Lévl., Cat. Pl. Yunnan 28 (1915).

948. **Viburnum foetidum** Wall. var. *ceanothoides* (Wight) Hand.-Mazz., Symb. Sin. 7: 1038 (1936); Rehder in Journ. Arn. Arb. 18: 250 (1937) & Bibl. Cult. Trees & Shrubs 606 (1949).

V. ceanothoides Wright in Kew Bull. Misc. Inf. 23 (1896).

V. ajugifolium Lévl. in Fedde, Rep. Sp. Nov. 9: 441 (1911) & Fl. Kouy-Tchéou 65 (1914).

Premna valbrayi Lévl., Sert. Yunnan 4 (1916) & Cat. Pl. Yunnan 299 (1917).

V. foetidum auct. non Wall.; Rehder in Journ. Arn. Arb. 16: 331 (1935).

Both Léveillé's species were cited by Rehder with a note that they were similar to *V. ceanothoides*. They have now been determined by Dr T. Dudley as var. *ceanothoides*.

949. **Viburnum foetidum** Wall. var. *rectangulatum* (Graebn.) Rehder; Rehder in Journ. Arn. Arb. 16: 331 (1935).

V. rectangulatum Graebn. in Bot. Jahrb. 29: 588 (1900).

V. touchanense Lévl. in Fedde, Rep. Sp. Nov. 9: 442 (1911) & Fl. Kouy-Tchéou 66 (1914).

V. pinfaense Lévl. in Fedde, Rep. Sp. Nov. 9: 442 (1911) & Fl. Kouy-Tchéou 66 (1914) p.p. quoad *Cavalerie* 1483; Rehder in Journ. Arn. Arb. 16: 330 (1935) pro syn. sub *V. cylindricum* Ham. var. *crassifolium* (Rehder) Schneid.

Hedyotis yunnanensis Lévl. in Fedde, Rep. Sp. Nov. 13: 176 (1914) & Cat. Pl. Yunnan 245 (1917).

Oldenlandia yunnanensis (Lévl.) Chun in Sunyatsenia 1: 314 (1934).

Viburnum komarovii Lévl. & Van. = *Photinia parvifolia* (Pritz.) Schneid. (Rosaceae).

950. **Viburnum oliganthum** Batal.; Rehder in Journ. Arn. Arb. 16: 328 (1935).

V. stapfianum Lévl. in Fedde, Rep. Sp. Nov. 9: 443 (1911) & Fl. Kouy-Tchéou 66 (1914).

951. **Viburnum sempervirens** C. Koch var. *trichophorum* Hand.-Mazz. in Beih. Bot. Centralbl. 65: Abt. B, 465 (1937).

V. pinfaense Lévl. in Fedde, Rep. Sp. Nov. 9: 442 (1911) & Fl. Kouy-Tchéou 66 (1914) p.p. quoad *Cavalerie* 1056; Rehder in Journ. Arn. Arb. 16: 331 (1935) pro syn. sub *V. sempervirens*.

952. **Viburnum setigerum** Hance; Rehder in Journ. Arn. Arb. 12: 77 (1931).

V. bodinieri Lévl. in Fedde, Rep. Sp. Nov. 9: 442 (1911) & Fl. Kouy-Tchéou 65 (1914).

953. **Viburnum sympodiale** Graebn.; Rehder in Journ. Arn. Arb. 16: 329 (1935).

V. martini Lévl. in Fedde, Rep. Sp. Nov. 9: 443 (1911) & Fl. Kouy-Tchéou 66 (1914).

954. **Viburnum ternatum** Rehder; Rehder in Journ. Arn. Arb. 16: 330 (1935).
V. chaffanjonii Lévl. in Fedde, Rep. Sp. Nov. 9: 443 (1911) & Fl. Kouy-Tchéou 66 (1914).

RUBIACEAE
 (With D. K. Ferguson)

955. **Adina racemosa** (Sieb. & Zucc.) Miq.; Rehder in Journ. Arn. Arb. 16: 319 (1935); How in Sunyatsenia 6: 246 (1946).

Nauclea racemosa Sieb. & Zucc. in Abh. Akad. Wiss. München Math. Phys. Cl. 4 (3): 178 (1846).

Cornus esquirolii Lévl. in Fedde, Rep. Sp. Nov. 13: 257 (1914) & Fl. Kouy-Tchéou 116 (1914).

956. **Adina rubella** Hance; Nakai, Fl. Sylv. Kor. 14: 89 (1923); Rehder in Journ. Arn. Arb. 18: 247 (1937); How in Sunyatsenia 6: 248 (1946).

A. fauriei Lévl. in Fedde, Rep. Sp. Nov. 8: 283 (1910); Nakai in Journ. Coll. Sci. Imp. Univ. Tokyo 31: 497 (1911).

Nauclea rubella (Hance) Nakai in Journ. Jap. Bot. 18: 216 (1942).

Antirrhaea esquirolii Lévl. = *Ecdysanthera rosea* Hook. & Arn. (Apocynaceae).

Antirrhaea martini Lévl. = *Sindechites henryi* Oliv. (Apocynaceae).

957. **Canthium cavaleriei** Lévl. in Fedde, Rep. Sp. Nov. 10: 434 (1912) & Fl. Kouy-Tchéou 364 (1915).

Lasianthus sp.; Rehder in Journ. Arn. Arb. 16: 324 (1935).

Like Rehder we are unable to identify *Canthium cavaleriei* with any species of *Lasianthus* but we do not think that it belongs to that genus.

Lasianthus leaves are generally characterised by the transverse tertiary veins, closely set and parallel to one another. The fine venation of the leaves of *Canthium cavaleriei* is reticulate and the leaves themselves are reddish brown, a colour not found in the specimens of *Lasianthus* which we have examined.

958. **Carlemannia tetragona** Hook. f., Fl. Br. Ind. 3: 85 (1880); Kern & v. Steenis in Fl. Males. ser. 1, 4: 193 (1951).

C. henryi Lévl. in Fedde, Rep. Sp. Nov. 13: 178 (1914) & Cat. Pl. Yunnan 245 (1917).

CHINA. Yunnan, Szemao forests, 5000 ft, white flowers, prostrate, straggly herb to 2 ft, *Henry* 12545 (typus *C. henryi*, E).

Carlemannia is placed in Rubiaceae in Bentham & Hooker's Genera Plantarum and by Kern & van Steenis (l.c.) in Caprifoliaceae. Airy-Shaw (Kew Bull. 19, 507-512: 1965) disagreed with its connection with Caprifoliaceae and created the new family Carlemanniaceae.

As the Edinburgh herbarium and this Catalogue follow in principle the Bentham and Hooker system, *Carlemannia* is here treated in Rubiaceae.

Cephalanthus esquirolii Lévl. = *Camptotheca acuminata* Decne. (Cornaceae).

959. *Clarkella nana* (Edgew.) Hook. f., Fl. Brit. Ind. 3: 46 (1880); Duthie, List N.W. Ind. Pl. 87 (1885); Fukuoka & Kurosaki in Tonan Ajia Kenkyu 8: 178 (1970).

Ophiorrhiza nana Edgew. in Trans. Linn. Soc. 20: 60 (1846); Fukuoka & Kurosaki in Tonan Ajia Kenkyu 8: 178 (1970).

Ophiorrhiza pellucida Lévl. in Fedde, Rep. Sp. Nov. 13: 176 (1914) & Fl. Kouy-Tchéou 370 (1915).

Clarkella siamensis Craib in Kew Bull. 1931: 216 (1931).

C. nana (Edgew.) Hook. f. var. *siamensis* (Craib) Fukuoka & Kurosaki in Tonan Ajia Kenkyu 8: 178 (1970).

INDIA. Uttar Pradesh. Kumaon, Huthipeon, (Hurukithan?), 1847, *Edgeworth* s.n. (holo. *Ophiorrhiza nana*, K); Mohargari, 4000 ft, *Strachey & Winterbottom* 3 (K); Garhwal, *Falconer* s.n. (K); Dehra Dun, *Gamble* 23174 (K.—n.v.).

BURMA. S Shan States, Keng Tung, 3000 ft, vii 1909, *R. W. MacGregor* 762 (E).

CHINA. Kweichow, Ma-jo, Yeng Kia tchong, blanche, 25 viii, 6 ix, *Cavalerie* 2454 (syntype *O. pellucida*, E); Mou-You-Tse, parois humides d'un tong, fl. blanches, 14 vii, *Esquirol* 486 (syntype *O. pellucida*, E); Tong chang, grotte, fleur blanche, *Esquirol* 922 (syntype *O. pellucida*, E); Hoa-ouay-rao, viii 1905, *Esquirol* 624 (syntype *O. pellucida*, E); sine loc., *Esquirol* 720 (E). Yunnan, Szemao, mt. cliffs, 6000 ft, white fls, *Henry* 13123 (E); Chenkang, Sangeorshan, Snow Range, 2300 m, upon rock surface, common, white, 1 in, 30 vii 1938, *T. T. Yü* 17107 (E).

THAILAND. Nakhon Si Thammarat, Kao Chem, Tung Song, on rock, 21 vii 1929, *Rabil* 139 (holo. *Clarkella siamensis*, K; iso. BK); Chiang Mai, Doi Chiang Dao, steep slope above Ban Tam, 640 m, white, 9 viii 1935, *Garrett* 968 (K), above caves, rock face above saddle to N spur, 680 m, flowers white, 26 viii 1949, *Garrett* 1275 (K.—n.v.).

When describing *Clarkella siamensis*, Craib noted that it was a plant larger in all respects than *C. nana* and when the type specimens only are compared, their separation could perhaps be justified. Fukuoka & Kurosaki, having examined a specimen of *C. nana* from Doi Chiang Dao (*T. 9949—KYO*) concluded that *C. siamensis* was worthy of no more than varietal rank.

When examining the material of *Ophiorrhiza pellucida* we placed it in the genus *Clarkella* and concluded that it was closely allied to *C. siamensis*. One of us (L.A.L.) has since seen the types of *C. nana* and of *C. siamensis*.

It is clear from an examination of all the specimens cited above that *C. siamensis* is but a robust form of *C. nana*. Some of the Chinese specimens are intermediate between them but more closely approaching *C. siamensis*, whilst *Yü* 17107 is of the dwarf type expressed by *C. nana*. In Yunnan, therefore, both the dwarf and more robust types occur. There are several individual plants in the Garrett collection, named as *C. nana*, and these range from small to medium in leaf size.

The map (fig. 1) shows the distribution of *C. nana*, *C. siamensis* and *O. pellucida* and if one regards them as three distinct taxa, the occurrence of *C. nana* in Siam, so remote from the Himalayas, and lying between the expressions represented by *C. siamensis* and *O. pellucida*, gives rise to a very



FIG. 1. Distribution of ● *Clarkella nana* (Edgw.) Hook. fil. and its synonyms ▲ *C. siamensis* Craib and ○ *Ophiorrhiza pellucida* Lévl.

disjunct distribution. Both morphologically and geographically, therefore, it seems more natural to consider *C. siamensis* and *O. pellucida* conspecific with *C. nana*.

Damnacanthus esquirolii Lévl. = *Carissa carandas* L. (Apocynaceae).

960 *Emmenopterys henryi* Oliver; Rehder in Journ. Arn. Arb. 16: 318 (1935); How in Sunyatsenia 7: 25 (1948).

Mussaenda cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 13: 178 (1914) & Fl. Kouy-Tchéou 368 (1915).

Mussaenda mairei Lévl. in Bull. Acad. Géog. Bot. 25: 47 (1915) & Cat. Pl. Yunnan 247 (1917).

961. *Galium aparine* L., Sp. Pl. 108 (1753) s.l.

Galium hongnoense Lévl. in Fedde, Rep. Sp. Nov. 10: 438 (1912). KOREA. Quelpaert, Hongno, in rupibus torrentium, 28 iii 1908, Taquet 4657 (holo. *G. hongnoense*, E).

Léveillé's species is not listed in Index Kewensis. Although referred to in a footnote of *G. taquetii*, *G. hongnoense* is, however, validated by a Latin description. A specimen was, moreover, cited. Hara (Enum. Sperm. Jap. 2: 10, 1952) cited *G. hongnoense* in synonymy under *G. spurium* L. var. *echinispermon* (Wallr.) Hayek, and has recently identified the holotype as such.

Although most authors have maintained the distinction between *G. spurium*

and *G. aparine*, some have pointed out that these species resemble each other closely. They have been variously distinguished on the basis of habit, leaves, flowers or fruits. Intermediate forms do, however, exist.

In view of the general similarity between *G. aparine* and *G. spurium* var. *echinospermum* and in particular their fruits, we do not feel that these should be referred to different species. Cufodontis (Öst. Bot. Zeitschr. 89: 245-247, 1940) referred *G. spurium* to *G. aparine* var. *leiospermum* (Wallr.) Cuf. and *G. spurium* var. *echinospermum* to *G. aparine* var. *echinospermum* (Wallr.) Cuf.

The holotype of *G. hongnoense* is sterile. In the absence of flowering or fruiting material it is not possible to identify this specimen more accurately.

962. *Galium asperifolium* [Wall. ex] Roxb. var. *sikkimense* (Gdgr.) Cuf. in Öst Bot. Zeitschr. 89: 241 (1940).

? *G. cavaleriei* Lévl. in Fedde, Rep. Sp. Nov. 10: 438 (1912) & Fl. Kouy-Tchéou 366 (1915); Cuf. in Öst. Bot. Zeitschr. 89: 248 (1940). *G. blinii* Lévl. in Bull. Acad. Géog. Bot. 25: 48 (1915) & Cat. Pl. Yunnan 245 (1917); Cuf. in Öst. Bot. Zeitschr. 89: 248 (1940).

G. bodinieri Lévl., Fl. Kouy-Tchéou 366 (1915); Cuf. in Öst. Bot. Zeitschr. 89: 248 (1940).

G. esquirolii Lévl. in Bull. Acad. Géog. Bot. 25: 48 (1915) & Cat. Pl. Yunnan 245 (1917); Cuf. in Öst. Bot. Zeitschr. 89: 248 (1940).

G. cuneatum Lévl., Cat. Pl. Yunnan 245 (1917)—nomen.

CHINA. Kweichow, Pin-fa, bois, 11 x 1905, *Cavalerie* 2541 (holo. *G. cavaleriei*, E). Yunnan, plaine et coteaux à Tong-tchouan, 2550 m, haies, *Galium* annuel en touffes, un peu grimpant, fl. violettes, E. E. Maire s.n. (holo. *G. blinii*, E). Kweichow, Ma-jo, rouge pourpre, 5 ix 1907, *Cavalerie* 3085 (holo. *G. bodinieri*, E). Yunnan, collines de Tong-tchouan, 2550 m, brousse, *Galium* annuel un peu grimpant, tiges courtes, 40 cm, fl. jaunes, E. E. Maire s.n. (holo. *G. esquirolii*, E).

963. *Galium bungei* Steud. var. *punduanooides* Cuf. in Öst. Bot. Zeitschr. 89: 222 (1940).

G. remotiflorum Lévl. & Van. in Bull. Soc. Bot. Fr. 55: 58 (1908); Lévl. in Mem. Real Acad. Cienc. Art. Barcelona ser. 3, 12: 560 (1916); Cuf. in Öst. Bot. Zeitschr. 89: 220 (1940) pro syn. sub *G. bungei* var. *bungei*.

CHINA. Kiangsu, d'Argy s.n. (holo. *G. remotiflorum*, E).

G. remotiflorum is similar to both *G. bungei* and *G. trachyspermum*. It agrees with *G. bungei* in the possession of a fairly lax inflorescence. *G. trachyspermum*, on the other hand, is characterized by a congested inflorescence. Kitagawa suggested (Bot. Mag. Tokyo 48: 616, 1934), that these species could be separated on differences of surface ornamentation of the fruits. Whereas the fruits of *G. bungei* are covered by hooked hairs, those of *G. trachyspermum* have a surface which is warty. Cufodontis (Öst. Bot. Zeitschr. 89: 222, 1940), however, maintained that this character is of little taxonomic importance. On the other hand, the work of Ubach (Collect. Bot. 3: 109-135, 1951) on the epidermal characters of *Galium* fruits would tend to suggest that they are, in fact, of no small taxonomic value.

We have examined the fruits of both *G. bungei* and *G. trachyspermum* and are of the opinion that *G. remotiflorum*, which has fruit with short hooked hairs is more closely allied to *G. bungei*. The d'Argy specimen agrees with a specimen of *G. bungei* var. *punduanoides* (H. Smith 10395—BM) determined by Cufodontis himself. This variety is characterized by setose hairs on the stem and leaves.

From plant to plant, or even within the same plant of *G. bungei*, there is sometimes considerable variation in leaf-shape and size. The leaves of *G. remotiflorum* are ovate or elliptical, 8-23 mm long, 2·8-7·2 mm wide and having a length/breadth ratio of 1·7:1·3:1.

Nakai (Bull. Nat. Sci. Mus. Tokyo no. 31: 106, 1952) lists *G. remotiflorum* as a Korean endemic. It is uncertain whether or not this refers to *G. remotifolium* Léveillé nom. nud. (Fl. Sylv. Kor. 14: 85, 1923). *G. remotiflorum* Lévl. & Van. was, of course, validly published in 1908.

964. *Galium comari* Lévl. & Van. in Bull. Soc. Bot. Fr. 51: cxlv (1904) & Lévl., Fl. Kouy-Tchéou 366 (1915); Cuf. in Öst. Bot. Zeitschr. 89: 241 (1940) pro syn. sub *G. asperifolium* [Wall. ex] Roxb. var. *sikkimense* (Gdgr.) Cuf. CHINA. Kweichow, Pin-fa sud-ouest, bois ombragés, 21 viii 1902, Cavalerie 263 (holo. *G. comari*, E).

Cufodontis did not examine *G. comari*. His reference of *G. comari* to *G. asperifolium* var. *sikkimense* was based only on Léveillé's description. *G. asperifolium* var. *sikkimense* is characterized by relatively compact inflorescences with numerous leafy bracts, while *G. comari* has a very diffuse inflorescence with only a few linear bracts.

965. *Galium elegans* [Wall. ex] Roxb. var. *velutinum* Cuf. in Öst. Bot. Zeitschr. 89: 230 (1940).

G. mairei Lévl. in Fedde, Rep. Sp. Nov. 13: 180 (1914) & Cat. Pl. Yunnan 245 (1917); Cuf. in Öst. Bot. Zeitschr. 89: 229 (1940) pro syn. sub *G. elegans* var. *elegans*.

CHINA. Yunnan, Tong-tchouan, 2600 m, pâturages des monts., Galium vivace, rampant, court, gris, velu, fl. blanc. grisâtre, E. E. Maire s.n. (holo. *G. mairei*, E).

We have examined the holotype of *G. mairei* and a type of *G. elegans* var. *velutinum*. These specimens agree with each other in their dense indumentum of unicellular hairs, whereas typical *G. elegans* is characterized by only sparingly pubescent leaves.

966. *Galium martinii* Lévl. & Van. in Bull. Soc. Bot. Fr. 55: 58 (1908) & Lévl., Fl. Kouy-Tchéou 366 (1915); Cuf. in Öst. Bot. Zeitschr. 89: 248 (1940). CHINA. Kweichow, environs de Gan-pin, sur les rochers, parmi les mousses, petite fleur blanche, 16 viii 1897, Martin & Bodinier s.n. (holo. *G. martinii*, E).

967. *Galium quinatum* Lévl. in Bull. Acad. Géog. Bot. 25: 47 (1915) & Cat. Pl. Yunnan 245 (1917); Cuf. in Öst. Bot. Zeitschr. 89: 248 (1940).

CHINA. Yunnan, Tong-tchouan, 2500 m, haies de la plaine, ix 1912, E. E. Maire s.n. (holo.—n.v.).

968. *Galium trachyspermum* A. Gray f. *hispidum* (Matsuda) Ohwi in Bull. Nat. Sci. Mus. Tokyo, no. 33: 86 (1953) & Fl. Jap. (Engl. ed.) 832 (1965).

G. gracile Bunge f. *hispidum* Matsuda in Bot. Mag. Tokyo 26: 130 (1912).

G. venosum Lévl. in Fedde, Rep. Sp. Nov. 10: 438 (1912); Cuf. in Öst. Bot. Zeitschr. 89: 221 (1940) pro syn. sub *G. bungei* Steud. var. *trachyspermum* (A. Gray) Cuf.; Hara, Enum. Sperm. Jap. 2: 10 (1952) & Nakai in Bull. Nat. Sci. Mus. Tokyo no. 31: 106 (1952) pro syn. sub *G. trachyspermum*.

G. trachyspermum A. Gray var. *hispidum* (Matsuda) Kitagawa in Bot. Mag. Tokyo 48: 617 (1934).

KOREA. Quelpaert E in agris Okhoui, 11 vi 1910, Taquet 4286 (holo. *G. venosum*, E).

969. *Galium trifidum* L. var. *brevipedunculatum* Regel in Mém. Acad. Imp. Sci. St. Pétersb. sér. 7, 4: 77 (1861); Hara, Enum. Sperm. Jap. 2: 11 (1952).

G. taquetii Lévl. in Fedde, Rep. Sp. Nov. 10: 438 (1912).

KOREA. Quelpaert, in agris sub umbra arborum, viii 1909, Taquet 2954 (syntype *G. taquetii*, E); Quelpaert, in humidis Hongno, i vii 1910, Taquet 4289 (syntype *G. taquetii*, E), 4 vii 1910, Taquet 4288 (syntype *G. taquetii*, E).

Although *Galium trifidum* is not mentioned by Nakai (Bull. Nat. Sci. Mus. Tokyo no. 31: 106, 1952) in his "Synoptical Sketch of Korean Flora", these specimens agree well with *G. trifidum*, particularly in the 3-lobed corollas. Hara (Journ. Fac. Sci. Univ. Tokyo, Bot., 6: 379, 1956) described *G. trifidum* var. *brevipedunculatum* as differing from typical *G. trifidum* in having, among other things, whorls of 5-6 leaves on the upper parts of the plant. Whorls of 6 leaves are present on *Taquet 2954* and *Taquet 4289*.

970. *Gardenia jasminoides* Ellis; Rehder in Journ. Arn. Arb. 16: 321 (1935).

G. schlechteri Lévl. in Fedde, Rep. Sp. Nov. 10: 146 (1911) & Fl. Kouy-Tchéou 366 (1915).

Geophila yunnanensis = *Hydrocotyle sibthorpioides* Lam. (Umbelliferae).

971. *Hedyotis coreana* Lévl. in Fedde, Rep. Sp. Nov. 11: 64 (1912); Nakai in Bot. Mag. Tokyo, 40: 480 (1926) pro syn. sub *Oldenlandia crassifolia* DC. KOREA. Quelpaert in rupibus Saiseum, 25 viii 1908, Taquet 920 (lecto. *H. coreana*, E); Quelpaert in rupibus littoris, x 1906, Faurie 703 (E); in rupibus littoris, viii 1907, Faurie 1907 (E).

The specimens cited above are among other collections listed by Nakai under *Oldenlandia crassifolia*, which is considered in Ohwi's Flora of Japan to be synonymous with *Hedyotis biflora* (L.) Lam. var. *parvifolia* Hook. f. & Arn., but without reference to *Hedyotis coreana*.

We have examined the microfiches of *Oldenlandia biflora* L. (the basionym of *Hedyotis biflora*) and *O. crassifolia* DC. and we consider that *Hedyotis coreana* differs considerably from these species.

The illustration in Makino (New Illustr. Fl. Jap. 580, t. 2319, 1963) under *H. biflora* (L.) Lam. var. *parvifolia* Hook. & Arn. appears to be the same

as *Hedyotis coreana*. Although we have not seen any authentic material of var. *parvifolia*, material of *H. biflora* which we have seen, differs to such an extent that we consider it wiser to retain *H. coreana*, which should, however, be compared with type material of var. *parvifolia*.

Hedyotis mairei Lévl. = *Viburnum congestum* Rehder. (Caprifoliaceae).

Hedyotis yunnanensis Lévl. = *Viburnum foetidum* Wall. var. *rectangulatum* (Graebn.) Rehder. (Caprifoliaceae).

972. *Ixora henryi* Lévl. in Fedde, Rep. Sp. Nov. 13: 178 (1914), Fl. Kouy-Tchéou 367 (1915) & Cat. Pl. Yunnan 245 (1917); Chun in Sunyatsenia 1: 306 (1934); Rehder in Journ. Arn. Arb. 16: 322 (1935) & 18: 248 (1937).

I. cavalieriei Lévl., Fl. Kouy-Tchéou 367 (1915) nom. nud. pro syn.

973. *Lasianthus esquirolii* Lévl. in Fedde, Rep. Sp. Nov. 11: 295 (1912) & Fl. Kouy-Tchéou 368 (1915).

L. biermannii auct.; Rehder in Journ. Arn. Arb. 16: 323 (1935)—non King ex Hook. f.

We do not agree with Rehder's equating of *L. esquirolii* with *L. biermannii*. Léveillé's species differs from material of *L. biermannii* at Edinburgh in the lateral veins of the leaf being more closely spaced and in the terminal pair originating nearer the apex of the leaf. In general facies the venation of *L. esquirolii* is more crowded in proportion to the size of the leaf than in *L. biermannii*. The leaf apex is long acuminate-cuspidate in *L. biermannii* and shortly acuminate-mucronate in *L. esquirolii*.

L. henryi Hutch. appears to have a closer affinity with *L. esquirolii* but the leaves of the former are longer and narrower.

974. *Lasianthus hartii* Franch.; Rehder in Journ. Arn. Arb. 16: 323 (1935) & 18: 249 (1937).

Canthium dunnianum Lévl. in Fedde, Rep. Sp. Nov. 9: 324 (1911) & Fl. Kouy-Tchéou 364 (1915).

There are several species of *Lasianthus* with leaf shapes similar to that of *L. hartii*. We do not have type material of *L. hartii*, although the type specimen of Léveillé's species matches closely a Handel-Mazzetti specimen matched by him with the type of *L. hartii*.

975. *Lasianthus hookeri* Clarke ex Hook. f.; Rehder in Journ. Arn. Arb. 16: 323 (1935).

? *L. dunniana* Lévl. in Fedde, Rep. Sp. Nov. 11: 64 (1912) & Fl. Kouy-Tchéou 368 (1915).

Merrill (Lingn. Sci. Journ. 13: 49, 1934) referred *L. dunniana* to *L. hartii*. The Edinburgh material of *L. hartii* including a specimen determined as such by Merrill exhibits reticulate venation whereas *L. dunniana* has the tertiary venation parallel and closely set as is common in *Lasianthus*.

L. dunniana is here referred doubtfully to *L. hookeri*. It agrees completely with Yunnanese material identified by Hutchinson as *L. hookeri*. It does not, however, agree with an Edinburgh specimen of *L. hookeri* collected by Hooker & Thomson from the type area but at a different altitude.

976. **Leptodermis oblonga** Bunge; Rehder in Journ. Arn. Arb. 16: 328 (1935).
L. chaneti Lévl. in Bull. Acad. Géog. Bot. 25: 47 (1915) & 26: 84 (1917).

977. **Leptodermis pilosa** (Franch.) Diels var. **glabrescens** H. Winkl.; Rehder in Journ. Arn. Arb. 16: 327 (1935)..

L. mairei Lévl. in Fedde, Rep. Sp. Nov. 13: 179 (1914) & Cat. Pl. Yunnan 246 (1917).

All the Léveillé holotypes of *Leptodermis* except that of *L. mairei* were lost or destroyed at Breslau (Wroclaw) during the 1939-45 war.

978. **Leptodermis potaninii** Batal.; Rehder in Journ. Arn. Arb. 16: 326 (1935).

L. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 9: 324 (1911), l.c. 13: 179 (1914), Fl. Kouy-Tchéou 368 (1915) & Cat. Pl. Yunnan 246 (1917).

979. **Leptodermis potaninii** Batal. var. **glaucia** (Diels) H. Winkl.; Rehder in Journ. Arn. Arb. 16: 327 (1935).

L. motsouensis Lévl. in Bull. Acad. Géog. Bot. 25: 47 (1915) & Cat. Pl. Yunnan 246 (1917).

980. **Leptodermis potaninii** Batal. var. **tomentosa** H. Winkl.; Rehder in Journ. Arn. Arb. 16: 327 (1935).

L. tongtchouanensis Lévl. in Bull. Acad. Géog. Bot. 25: 47 (1915) & Cat. Pl. Yunnan 246 (1917).

Morinda esquirolii Lévl. = **Macaranga esquirolii** (Lévl.) Rehder (Euphorbiaceae).

981. **Mussaenda esquirolii** Lévl., Fl. Kouy-Tchéou 369 (1915); Rehder in Journ. Arn. Arb. 16: 319 (1935) & 18: 248 (1937).

982. **Mussaenda pubescens** Ait. f.; Rehder in Journ. Arn. Arb. 16: 320 (1935).

M. bodinieri Lévl. in Bull. Soc. Bot. Fr. 55: 59 (1908) & Cat. Pl. Yunnan 246 (1917).

983. **Neanotis mairei** (Lévl.) Lauener & Ferguson, **comb. nov.**
Ophiorrhiza mairei Lévl. in Fedde, Rep. Sp. Nov. 13: 177 (1914) & Cat. Pl. Yunnan 247 (1917).

CHINA. Yunnan, sous bois humides à Long-Ky, 700 m, plante vivace toujours érte, vi 1911, E. E. Maire s.n. (holo. *O. mairei*, E.)

N. mairei is related to *N. urophylla* (Wall. ex Wight & Arn.) W. H. Lewis (syn. *Anotis urophylla*) and to *N. ingrata* (Wall. ex Hook. f.) W. H. Lewis (syn. *Anotis ingrata*).

From *N. urophylla*, *N. mairei* differs in the leaves being generally broader and obviously petiolate. From *N. ingrata* it differs in the leaves being glabrous except at the edge of the lamina, more attenuate at the base, longer petioles and glabrous stipules.

Pollen analysis has confirmed that this species belongs to the genus *Neanotis* which was erected by W. H. Lewis (Ann. Miss. Bot. Gard. 53: 32-46; 1966).

984. *Neonauclea navillei* (Lévl.) Rehder in Journ. Arn. Arb. 16: 319 (1935); How in Sunyatsenia 6: 250 (1946).

Cephalanthus navillei Lévl., Fl. Kouy-Tchéou 365 (1915).

985. *Oldenlandia bodinieri* (Lévl.) Chun in Sunyatsenia 1: 310 (1934); Rehder in Journ. Arn. Arb. 16: 316 (1935).

Hedyotis bodinieri Lévl. in Fedde, Rep. Sp. Nov. 11: 64 (1912).

986. *Oldenlandia hedyotidea* (DC.) Hand.-Mazz.; Rehder in Journ. Arn. Arb. 18: 247 (1937).

Spermacoce? *hedyotidea* DC., Prodr. 4: 555 (1830).

Hedyotis macrostemon Hook. & Arn., Bot. Beechey Voy. 192 (1833).

Oldenlandia macrostemon (Hook. & Arn.) Kuntze; Rehder in Journ. Arn. Arb. 16: 316 (1935).

Hedyotis esquirolii Lévl. in Fedde, Rep. Sp. Nov. 13: 176 (1914) & Fl. Kouy-Tchéou 367 (1915).

Hedyotis hedyotidea (DC.) Merrill in Lingn. Sci. Journ. 13: 48 (1934). *Oldenlandia esquirolii* (Lévl.) Chun in Sunyatsenia 1: 310 (1934).

987. *Ophiorrhiza cantoniensis* Hance; Lévl., Fl. Kouy-Tchéou 370 (1915); Rehder in Journ. Arn. Arb. 16: 316 (1935).

O. seguini Lévl. in Fedde, Rep. Sp. Nov. 13: 177 (1914).

O. bodinieri Lévl. in Fedde, Rep. Sp. Nov. 13: 177 (1914) & Fl. Kouy-Tchéou 370 (1915) & Cat. Pl. Yunnan 247 (1917).

O. violaceo-flammea Lévl. in Bull. Acad. Géog. Bot. 25: 47 (1915) & Cat. Pl. Yunnan 247 (1917).

CHINA. Kweichow, environs de Kouy-Yang, mont. du college au Ke-ma-tong, bois de la pagode de Kien-lin-chan, 13 xi 1897, Bodinier 1993 (holo. *O. bodinieri*, E).

In his Flore du Kouy-Tchéou Léveillé cited the type of *O. seguini* under *O. cantoniensis*. Rehder included *O. seguini* and *O. violaceo-flammea* but did not mention *O. bodinieri*. In accordance with the format of this Catalogue, types already cited by Rehder are not repeated here.

Ophiorrhiza darrisii Lévl. = *Cynoctonum pedicellatum* (Benth.) Rob. (Loganiaceae).

Ophiorrhiza esquirolii Lévl. = *Jasminum primii* Lévl. (Oleaceae).

988. **Ophiorrhiza japonica** Bl., Rehder in Journ. Arn. Arb. 16: 316 (1935).
O. cavaleriei Lévl. in Fedde, Rep. Sp. Nov. 13: 177 (1914) & Fl. Kouy-Tchéou 370 (1915) pro syn. sub *O. labordei*.
O. labordei Lévl. in Fedde, Rep. Sp. Nov. 13: 177 (1914) & Fl. Kouy-Tchéou 370 (1915).

Ophiorrhiza marchandii Lévl. = **Cynoctonum pedicellatum** (Benth.) Rob. (Loganiaceae).

Paederia bodinieri Lévl. 1914 non 1915 = **Gardneria multiflora** Makino (Loganiaceae).

989. **Paederia cavaleriei** Lévl. in Fedde, Rep. Sp. Nov. 13: 179 (1914); Rehder in Journ. Arn. Arb. 16: 326 (1935) & 18: 249 (1937); Hand.-Mazz., Symb. Sin. 7: 1023 (1936).

990. **Paederia scandens** (Lour.) Merrill; Merrill in Trans. Amer. Phil Soc. n.s. 24: 372 (1935); Rehder in Journ. Arn. Arb. 16: 324 (1935) & 18: 249 (1937).

Gentiana scandens Lour., Fl. Cochinch. 1: 171 (1790).
Paederia esquirolii Lévl. in Fedde, Rep. Sp. Nov. 10: 146 (1911) & Cat. Pl. Yunnan 247 (1917).
P. dumiana Lévl. in Fedde, Rep. Sp. Nov. 10: 146 (1911).
P. mairei Lévl. in Fedde, Rep. Sp. Nov. 13: 179 (1914).
P. foetida auct.: Lévl., Fl. Kouy-Tchéou 371 (1915)—non L.
P. tomentosa Bl. var. *mairei* (Lévl.) Lévl., Cat. Pl. Yunnan 247 (1917).
P. scandens (Lour.) Merrill f. *mairei* (Lévl.) Nakai in Bull. Nat. Sci. Mus. Tokyo no. 22: 28 (1948).
P. scandens (Lour.) Merrill var. *mairei* (Lévl.) Hara, Enum. Sperm. Jap. 2: 24 (1952); Ohwi, Fl. Jap. 1087 (1953) & Fl. Jap. (Engl. ed.) 828 (1965).

P. scandens is a very variable species which also includes *P. tomentosa* Bl. according to most authors.

We disagree with the separation of *P. mairei* as an infraspecific taxon of *P. scandens*, since there is a wide range of variability in the leaves. Apart from this, Nakai's and Hara's separation of *P. mairei* is partly based on the assumption that the leaves of *P. mairei* are hairy beneath, whereas they are glabrous.

Japanese plants referred to under *P. scandens* var. *mairei* should now be referred to another variety.

991. **Paederia yunnanensis** (Lévl.) Rehder in Journ. Arn. Arb. 18: 249 (1937).

P. tomentosa Bl. var. *purpureo-coerulea* Lévl. & Van. in Bull. Soc. Bot. Fr. 55: 59 (1908).
P. bodinieri Lévl., Fl. Kouy-Tchéou 371 (1915) non Lévl. (1914); Hand.-Mazz. in Sinensis 5: 21 (1934) & Symb. Sin. 7: 1023 (1936).
Cynanchum yunnanense Lévl., Cat. Pl. Yunnan 13 (1915)—non Anth. (1927).

Paederia wallichii auct.; Rehder in Journ. Arn. Arb. 16: 325 (1935)—
non Hook. f.

Paederia rehderiana Hand.-Mazz., Symb. Sin. 7: 1377 (1936).

P. yunnanensis is closely related to *P. kerrii* Craib (Kew Bull. 1911: 396, 1911) but *P. kerrii*, of which we have seen a syntype, *Hosseus* 369, has the flower buds and calyx more patently hairy.

Under *P. kerrii*, Craib also cited *Henry* 9126 which was compared and identified at Kew as *P. wallichii*. Handel-Mazzetti compared the types of *P. wallichii* and *P. bodinieri* and regarded them as distinct and this separation was accepted by Rehder. We have not seen any authentic material of *P. wallichii*.

In his protologue of *P. kerrii*, Craib remarked that *Henry* 9126 was referred to *P. kerrii* doubtfully "as it is in an advanced fruiting stage". We have examined an Edinburgh specimen of *Henry* 9126, which is in flower, and consider that it belongs to *P. yunnanensis* (syn. *P. bodinieri*).

In *Symbolae Sinicae*, Handel-Mazzetti erroneously referred to *P. bodinieri* (1914) although this is a synonym of *Gardneria multiflora*. Since we have seen material which Handel-Mazzetti referred to and named as *P. bodinieri*, we cannot believe that he confused the taxonomy of the two species called *P. bodinieri*.

Cynanchum yunnanense Anth. is a later homonym of *C. yunnanense* Lévl. and may require a new name.

Pavetta esquirolii Lévl. = *Clerodendrum foetidum* Bunge (Verbenaceae).

992. **Prismatomeris henryi** (Lévl.) Rehder in Journ. Arn. Arb. 16: 328 (1935).

Canthium henryi Lévl. in Fedde, Rep. Sp. Nov. 13: 178 (1914) & Cat. Pl. Yunnan 245 (1917).

Prismatomeris brevipes Hutch. in Sarg., Pl. Wils. 3: 413 (1916); Lévl., Cat. Pl. Yunnan 247 (1917).

P. linearis Hutchinson, which was described at the same time as *P. brevipes*, seems to us to be conspecific with it.

Ridley (Kew Bull. 1939: 601, 1939) excluded *P. henryi*, *P. brevipes* and *P. linearis* from the genus *Prismatomeris* but gave no reason for this nor suggested any other more appropriate genus.

993. **Prismatomeris labordei** (Lévl.) Merrill ex Rehder in Journ. Arn. Arb. 18: 249 (1937); Merrill in Sunyatsenia 3: 260 (1937).

Canthium labordei Lévl. in Fedde, Rep. Sp. Nov. 13: 178 (1914) & Fl. Kouy-Tchéou 364 (1915).

Lasianthus labordei (Lévl.) Rehder in Journ. Arn. Arb. 13: 340 (1932) & 16: 323 (1935).

994. **Psychotria henryi** Lévl. in Fedde, Rep. Sp. Nov. 13: 179 (1914) & Cat. Pl. Yunnan 247 (1917); Rehder in Journ. Arn. Arb. 16: 322 (1935).

995. *Psychotria prainii* Lévl. in Fedde, Rep. Sp. Nov. 9: 324 (1911) & Fl. Kouy-Tchéou 371 (1915); Rehder in Journ. Arn. Arb. 16: 322 (1935) & 18: 248 (1937).

Ficus rufipes Lévl. & Van. in Mem. Real Acad. Ci. Art. Barcelona, ser. 3, 6: 148 (1907) & in Fedde, Rep. Sp. Nov. 4: 86 (1907) p.p. quoad *Esquirol* 75, 76.

996. *Psychotria rubra* (Lour.) Poir.; Merrill in Trans. Amer. Phil. Journ. n.s. 24: 371 (1935); Rehder in Journ. Arn. Arb. 16: 322 (1935).

Antherura rubra Lour., Fl. Cochinch. 1: 144 (1790).

P. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 10: 435 (1912) & Fl. Kouy-Tchéou 371 (1915).

997. *Randia wallichii* Hook. f., Fl. Brit. Ind. 3: 113 (1880); Backer & Bakhuizen, Fl. Java 2: 312 (1965).

Tarennia incerta Koorders & Vleeton; Rehder in Journ. Arn. Arb. 16: 321 (1935) & 18: 248 (1937).

? *Webera cavaleriei* Lévl. in Fedde, Rep. Sp. Nov. 9: 323 (1911) & Fl. Kouy-Tchéou 372 (1915).

Lindera megaphylla auct.: Lévl. Fl. Kouy-Tchéou 219 (1914) p.p. quoad *Cavalerie* 3585—non Brandis.

Webera henryi Lévl., Sert. Yunnan 1 (1916) & Cat. Pl. Yunnan 248, 296 (1917).

We have examined material named as *Randia wallichii* and *Tarennia incerta* (syn. *T. pallida* Franch.) and were unable to separate them. We therefore follow Backer and Bakhuizen in regarding them as conspecific.

The type of *Webera cavaleriei*, as Rehder indicated, is very scanty, but we agree with him that it probably belongs to *Tarennia incerta*, i.e. *Randia wallichii*.

998. *Rubia argyi* (Lévl. & Van.) Hara, comb. nov.

Galium argyi Lévl. & Van. in Bull. Soc. Bot. Fr. 55: 58 (1908); Lévl. in Mem. Real Acad. Cienc. Art. Barcelona ser. 3, 12: 560 (1916).

Rubia akane Nakai in Journ. Jap. Bot. 13: 783 (1937); Hara & Kuro-sawa in Sci. Rep. Tohoku Univ. ser. 4 (Biology) 29: 259 (1963).

CHINA. Kiangsu, Song-Kiang-fou, Tchen-chéou, nom. chinois: Kien-lou-tsao, racine médicale, *d'Argy* s.n. (holo. *G. argyi*, E).

We had at first equated *G. argyi* with the variable *Rubia cordifolia* L. but Professor Hara, who examined the type specimen at Edinburgh, has identified it with *R. akane* Nakai. The Japanese epithet is unfortunately antedated by Léveillé's.

999. *Rubia schumanniana* Pritz. in Engl., Bot. Jahrb. 29: 583 (1901); Hand.-Mazz. in Sinensis 5: 22 (1934) & Symb. Sin. 7: 1031 (1936).

R. esquirolii Lévl. in Fedde, Rep. Sp. Nov. 10: 439 (1912).

R. chinensis Regel & Maack var. *esquirolii* (Lévl.) Lévl., Cat. Pl. Yunnan 248 (1917).

CHINA. Yunnan, Ouan-tse, blanchâtre, 22 v 1909, *Esquirol* s.n. (holo. *R. esquirolii*, E).

We have not seen any material of *R. schumanniana* and therefore follow Handel-Mazzetti.

1000. *Rubia schumanniana* Pritz. var. *maillardii* (Lévl. & Van.) Hand.-Mazz. in *Sinensis* 5: 22 (1934).

R. maillardii Lévl. & Van. in *Bull. Soc. Bot. Fr.* 51: cxlv (1904).

R. cordifolia L. var. *maillardii* (Lévl. & Van.) Lévl., *Fl. Kouy-Tchéou* 372 (1915).

CHINA. Kweichow, route de Pin-fa à Tou-yun, dans une dépression de terrain 14 xi 1902, *Cavalerie* 689 (holo. *R. maillardii*, E).

1001. *Tarenna mollissima* (Hook. & Arn.) Merrill; Rehder in *Journ. Arn. Arb.* 16: 320 (1935).

Cupia mollissima Hook. & Arn., *Bot. Beech. Voy.* 192 (1833).

Ehretia esquirolii Lévl., *Fl. Kouy-Tchéou* 54 (1914)—non Lévl. (1913).

1002. *Uncaria scandens* (Sm.) Hutch.; Rehder in *Journ. Arn. Arb.* 16: 319 (1935); How in *Sunyatsenia* 6: 258 (1946).

Nauclea scandens Smith in *Rees, Cyclop.* 24: No. 9 (1813)—non Roxb. ex Hook. f. (1880).

Cephaelanthus cavaleriei Lévl. in *Fedde, Rep. Sp. Nov.* 10: 434 (1912) & *Fl. Kouy-Tchéou* 365 (1915).

Webera marchandii Lévl. = *Daphniphyllum glaucescens* Bl. subsp. *oldhamii* (Hemsl.) Huang (Euphorbiaceae).

1003. *Wendlandia cavaleriei* Lévl. in *Fedde, Rep. Sp. Nov.* 10: 434 (1912) & *Fl. Kouy-Tchéou* 373 (1915); Cowan in *Notes R.B.G. Edinb.* 16: 263 (1932); Rehder in *Journ. Arn. Arb.* 16: 318 (1935); How in *Sunyatsenia* 7: 41 (1948).

W. feddei Lévl. in *Fedde, Rep. Sp. Nov.* 10: 434 (1912) & *Fl. Kouy-Tchéou* 373 (1915).

1004. *Wendlandia salicifolia* [Franch. ex] Castello; Cowan in *Notes R.B.G. Edinb.* 16: 244 (1932); Rehder in *Journ. Arn. Arb.* 16: 317 (1935); How in *Sunyatsenia* 7: 37: (1948).

Ligustrum thea Lévl. & Dunn in *Fedde, Rep. Sp. Nov.* 10: 147 (1911); Lévl., *Fl. Kouy-Tchéou* 295 (1915).

1005. *Wendlandia uvariifolia* Hance subsp. *dunniana* (Lévl.) Cowan in *Notes R.B.G. Edinb.* 16: 287 (1932); Rehder in *Journ. Arn. Arb.* 16: 318 (1935) & 18: 247 (1937); How in *Sunyatsenia*, 7: 49 (1948).

W. dunniana Lévl. in *Fedde, Rep. Sp. Nov.* 10: 434 (1912) & *Fl. Kouy-Tchéou* 373 (1915).

VALERIANACEAE

1006. *Patrinia villosa* (Thunb.) Juss. in Ann. Mus. Par. 10: 311 (1807); Hara, Enum. Sperm. Jap. 2: 71 (1952); Ohwi, Fl. Jap. (Engl. ed.) 844 (1965). *Valeriana villosa* Thunb., Fl. Jap. 32, t. 6 (1784).

Patrinia villosa (Thunb.) Juss. var. *sinensis* Lévl. in Fedde, Rep. Sp. Nov. 10: 439 (1912); var. *japonica* Lévl. l.c.

P. sinensis (Lévl.) Koidzumi in Bot. Mag. Tokyo 43: 390 (1929).

CHINA. Kweichow, Pin-fa, bois humides, fl. blanche-jaune, 23 vii 1902, *Cavalerie* 94 (holo. var. *sinensis*, E).

Léveillé did not cite any specimens under var. *sinensis* or var. *japonica* but the label of *Cavalerie* 94 bears the name var. *sinensis* in his hand.

1007. *Valeriana briquetiana* Lévl., Cat. Pl. Yunnan 277 (1917); Hand.-Mazz. in Acta Hort. Gothoburg. 9: 180 (1934).

V. mairei Lévl. in Bull. Acad. Géog. Bot. 24: 281 (June 1914)—non *V. mairei* Briquet (April 1914).

CHINA. Yunnan, rochers des mont. à Tcha-ho, 2600 m, *valeriana* vivace, naine, fl. blanches, vii 1913, E. E. Maire s.n. (holo. *V. mairei* Lévl., *V. briquetiana* Lévl., E).

DIPSACACEAE

1008. *Morina delavayi* Franch. in Bull. Soc. Bot. Fr. 32: 8 (1885); Pai in Fedde, Rep. Sp. Nov. 44: 119 (1938).

Barleria crotalaria Lévl. in Fedde, Rep. Sp. Nov. 12: 285 (1913).

CHINA. Yunnan, pâturages un peu humide des mont. derrière Tong-tchouan, 2700 m, plante annuelle à demi couchée, aiselle des feuil. et calice ciliés, fl. roses, vii, E. E. Maire s.n.; pâturages des vallées à Lou-pou, 3000 m, plante annuelle, feuill. à longs cils, fl. roses, vii 1912, E. E. Maire s.n. (syn-types *B. crotalaria*, E).

Scabiosa mairei Lévl. = *Myriactis wallichii* Less. (Compositae).

Triplostegia epilobiifolia Lévl. = *Inula* cf. *exsiccata* Lévl. (Compositae).

Triplostegia mairei Lévl. = *Chrysosplenium macrophyllum* Oliv. (Saxifragaceae).

Triplostegia pinifolia Lévl. = *Sedum fastigiatum* Hook. f. & Thoms. (Crassulaceae).